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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/079,479	02/22/2002	Gottlieb-Georg Lindner	215150US0	6695
22850	7590 09/13/2005		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			NGUYEN, NGOC YEN M	
	ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER
			1754	

DATE MAILED: 09/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
		10/079,479	LINDNER ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Ngoc-Yen M. Nguyen	1754	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address	
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status				
2a)⊠	Responsive to communication(s) filed on <u>24 July</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Dispositi	on of Claims			
5)	Claim(s) 1,4,5,10-12,14-19 and 22-25 is/are per 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1, 4-5, 10-12, 14-19, 22-25 is/are rejected to. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examinet The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examinet The oath or dec	vn from consideration. cted. r election requirement. r. epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
Priority u	Inder 35 U.S.C. § 119			
12) <u></u> / a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priorical pulcation from the International Bureau see the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage	
2) Notice 3) Infom	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	(PTO-413) te atent Application (PTO-152)	

U.S. Patent and Trademark Offic PTOL-326 (Rev. 7-05)



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DETAILED ACTION

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 4-5, 10-12, 14-19, 22-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chevalier (6,107,226).

Chevalier '226 discloses silica beads having a substantially spherical morphology and a mean particle size of at least 80 microns, a maximum BET surface area of 130 m²/g, a maximum CTAB surface area of 130 m²/g (note claim 2) and a DOP oil uptake of at most 270 ml/100g.

The values for the BET and CTAB surface areas in Chevalier '226 overlap the claimed ranges. With respect to the encompassing and overlapping ranges previously discussed, the subject matter as a whole would have been obvious to one of ordinary skill in the art at the time of invention to select the portion of the prior art's range which is within the range of the applicants' claims because it has been held prima facie case of obviousness to select a value in a known range by optimization for the results. *In re Boesch*, 205 USPQ 215. Additionally, the subject matter as a whole would have been obvious to one of ordinary skill in the art at the time invention was made to have selected the overlapping portion of the range disclosed by the reference because

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overlapping ranges have been held to be a prima facie case of obviousness. *In re Malagari*, 182 USPQ.

Chevalier '226 only disclose DOP oil uptake, not DBP absorption as required in the instant claims, however, since the DOP oil uptake in Chevalier '226 is within the claimed range, it would have been obvious to one of ordinary skill in the art to expect the DBP absorption for the product of Chevalier '226 also to be within the claimed range because DOP and DBP are analogous compound for measuring oil absorption for silica.

For claims 14-16, the silica of Chevallier '226 can be used as additive for elastomers (note column 1, lines 42-46).

In the process of Chevalier '226, the precipitation of silica is carried out according to the following stages:

Initially, a base mixture is formed, which contains silicate and an electrolyte. The amount of silicate present in the base mixture may be the entire amount required for the reaction, or it may be only a portion of such total amount. The electrolyte is a salt of an alkali or alkaline earth metal.

The second stage entails adding the acidifying agent to the base mixture described above. This addition, which involves a correlative lowering of the pH of the reaction medium, is continued until a pH value of about 7 is attained.

Once this value is attained, and if the base mixture contains only a portion of the total amount of silicate required, additional acidifying agent and the remaining amount of silicate is then simultaneously added thereto.

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The precipitation reaction proper is terminated when all of the silicate has been added.

It is possible, after the precipitation, to add in an optional later stage, an additional amount of the acidifying agent. This addition is generally continued until a pH of about 3 to 6.5 is attained.

Upon completion of the above operations, a slurry is obtained, which is then filtered and washed. The other characteristic stage of the process is the drying step (note column 3, line 39 to column 4, line 18).

Chevallier '226 does not specifically disclose the "constant alkali number", however, since the pH of the process of Chevallier '226 varies, it is assumed that the alkali number in Chevallier '226 is constant. For the value for the alkali number, since the pH disclosed for the process of Chevallier '226 overlaps the claimed pH range, one skilled in the art would have expected that the alkali number for Chevallier '226 would also overlap the claimed alkali number range (note instant specification, page 3, lines 15-26, which discloses the correlation between the pH and the alkali number).

The difference not yet discussed is Chevallier '226 does not disclose the choline chloride absorption and the DBP/choline chloride absorption ratio for the silica product.

However, since the product of Chevallier '226 is formed by a process similar the claimed process, the BET, CTAB surface areas of Chevallier '226 overlap those of the claimed product, it would have been obvious to one of ordinary skill in the art to reasonably expect that the choline chloride absorption value and the ratio of

DBP/choline chloride absorption for the product of Chevallier '226 to at least overlap those of the claimed product.

Applicant's arguments filed June 24, 2005 have been fully considered but they are not persuasive.

Applicants stated that the examiner had asserted that precipitation at constant pH is equivalent to precipitation at constant alkali number.

This is not the case. As stated in the above rejection, the precipitation in the process of Chevallier is carried under "varies pH", and such precipitation is assumed to have constant alkali number, not "constant pH" as alleged by Applicants.

Applicants argue that the method of Chevallier is a two-stage precipitation.

In Applicants' process claims, the "comprising" language does not exclude the presence of the second precipitation step as disclosed in Chevallier or the use of "silica growth nuclei".

Applicants argue that the product of Chevallier cannot have the claimed choline chloride absorption and the ratio DBP/chlorine chloride absorption.

Since Applicants have not provided any evidence to show that the precipitation disclosed in Chevallier is not under constant alkali number, it is still assumed that the process of Chevallier is substantially the same as the claimed process, thus, the product of the Chevallier would have substantially the same properties as the claimed product. Furthermore, when the examiner has found a substantially similar product as in the applied prior art, the burden of proof is shifted to applicant to establish that their

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product is patentably distinct and not the examiner to show the same process of making. *In re Brown*, 173 USPQ 685 and *In re Fessmann*, 180 USPQ 324.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ngoc-Yen M. Nguyen whose telephone number is (571) 272-1356. The examiner is currently on Part time schedule.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Stan Silverman can be reached on (571) 272-1358. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed (571) 272-1700.

Ngoc-Yen M. Nguyen Primary Examiner Art Unit 1754

nmn September 6, 2005